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WHAT IS CLAIMED IS:

- 1. A polynucleotide having a nucleotide sequence represented by Sequence ID No: 1.
- 2. A polynucleotide comprising the nucleotide sequence from 211 to 1935 position represented by Sequence ID No: 1.
 - 3. A protein having an amino acid sequence encoded by the polynucleotide according to claim 2.
 - 4. A recombinant vector containing the polynucleotide according to claim 1.
 - 5. A recombinant vector containing the polynucleotide according to claim 2.

6. Transgenic medaka fish into which the polynucleotide according to claim 1 is introduced.

- 7. Transgenic medaka fish into which the polynucleotide according to claim 2 is introduced.
- 8. A method of producing medaka fish having one or more thrombi, comprising the step of raising the transgenic medaka fish according to claim 6 in the presence of estrogen.
- 9. A method of producing medaka fish having one or more thrombic comprising the step of raising the transgenic medaka fish according to claim 7 in the presence of estrogen.
- 10. Medaka fish having one or more thrombi, which is obtained by raising the transgenic medaka fish according to claim 6 in the presence of estrogen.

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- 11. Medaka fish having one or more thrombi, which is obtained by raising the transgenic medaka fish according to claim 7 in the presence of estrogen.
- 12. A method of testing an estrogen-like action in test water, comprising the steps of:

raising the transgenic medaka fish according to claim 6 in the test water; and

observing whether or not one or more thrombi are formed in the medaka fish after the raising step.

13. A method of testing an estrogen-like action in test water, comprising the steps of:

raising the transgenic medaka fish according to claim 7 in the test water; and

observing whether or not one or more thrombi are formed in the medaka fish after the raising step.

- 14. The method according to claim 12, wherein the test water is water taken from environment.
- 15. The method according to claim 13, wherein the test water is water taken from environment.
- 16. The method according to claim 12, wherein the test water is water having a test substance added.
- 17. The method according to claim 13, wherein the test water is water having a test substance added.

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